

WHAT IS CLAIMED IS:

1. A rear projection screen for use in a rear projection display apparatus, comprising at least three lens sheets including:

a Fresnel lens sheet,

a horizontal lenticular lens sheet capable of horizontally refracting the incident light, and

a vertical lenticular lens sheet capable of vertically refracting the incident light, in this order from the incident side of the incident light,

the vertical lenticular lens sheet having a lenticular lens on its incident surface and black stripes in the vicinity of the focus of the lenticular lens in portions where the incident light does not pass through,

wherein the lens center of the Fresnel lens sheet is arranged upward with respect to the mechanical center of the screen, and, in relation to this arrangement, the black stripes of the vertical lenticular lens sheet are shifted with respect to the vertical lenticular lens.

2. The rear projection screen according to claim 1, wherein at least one of the Fresnel lens sheet, the horizontal lenticular lens sheet and the vertical lenticular lens sheet has a layer containing a light-diffusing member.

3. The rear projection screen according to claim 1, wherein, in the vertical lenticular lens sheet, the ratio of the focal length

of the lenticular lens to the lenticular lens pitch is in a range from 1.3 to 3.0, and the ratio of the width of black stripe (black stripe ratio) to the lenticular lens pitch is in a range from 60% to 80%.

4. A rear projection display apparatus having the rear projection screen of claim 1.